06-Jan-12 11:25 Report Date:



Re-Issued Report Final Report

Revised Report

SPECTRUM ANALYTICAL, INC. HANIBAL TECHNOLOGY Featuring

Environmental Compliance Services

588 Silver Street

Attn: Todd Donze Agawam, MA 01001

Laboratory Report

Project #: 01-215-977.00.00

Project: Kane Scrap Iron + Metal Inc - Chicopee, MA

Laboratory ID SB41540-02 SB41540-01 DA-002 DA-001 Client Sample ID Storm Water Storm Water Matrix 22-Dec-11 00:00 22-Dec-11 00:00 Date Sampled 22-Dec-11 15:10 22-Dec-11 15:10 Date Received

requirements for each method. These results relate only to the sample(s) as received I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control

All applicable NELAC requirements have been met.

Florida # E87600/E87936 Connecticut # PH-0777 Massachusetts # M-MA138/MA1110

Maine # MA138

New Hampshire # 2538

New York # 11393/11840 New Jersey # MA011/MA012

Pennsylvania # 68-04426/68-02924 Rhode Island # 98

USDA # S-51435



Authorized by:

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Nicole Leja Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

reproduced, except in full, without written approval from Spectrum Analytical, Inc. identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is

not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012). Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does

CASE NARRATIVE:

The samples were received 0.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

criteria may have been fulfilled with a source sample not of this Sample Dclivery Group. If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA 200.7

Blanks:

1127058-BLK1

The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

Iron

	7440-66-6 General	7439-89-6 7439-92-1	7440-50-8	Total Me 7429-90-5	Total Me	CAS No.	Sample Iden DA-001 SB41540-01
Hardness Chemical Oxygen Demand Total Suspended Solids	7440-86-6 Zinc General Chemistry Parameters	!ron Lead	Copper	Total Metals by EPA 200 Series Methods 7429-90-5 Aluminum 4	Total Metals by EPA 200/6000 Series Methods Preservation Preser	Analyte(s)	Sample Identification DA-001 SB41540-01
286 218 3,710	0.414	9.62 0.345	0.395	4.99	s Methods Field Preserved	Result	
						Flag	
mg/l CaCO3 mg/l mg/l	mg/l	/lgm	mg/l	mg/l	N/A	Units	Client Project # 01-215-977.00.00
20.0		0.0150	0.0050	0.0250		*RDL	<u>roject #</u> 77.00.00
0.242 6.50 31	0.0025	0.0098	0.0024	0.0167		MDL	
			_		-1	Dilution	<u>Matrix</u> Storm Water
HACH8000 SM2540D	=		3	EPA 200.7	EPA 200/6000 methods	Method Ref.	
28-Dec-11 29-Dec-11 28-Dec-11	=	: 4	2	28-Dec-11	23-Dec-11	Prepared	Collection Date/Time 22-Dec-11 00:00
28-Dec-11 29-Dec-11 29-Dec-11 29-Dec-11 28-Dec-11 29-Dec-11	=	30-Dec-11	03-Jan-12	28-Dec-11 30-Dec-11	23-Dec-11 23-Dec-11	Prepared Analyzed Analyst):00
GMA BD		: :	=	ī		Analyst	<u>Re</u> 22-1
1127277	=	3 =	=	1127058	AMT 1126933	Batch	Received 22-Dec-11
× × ×	×	××	×	×		Cert.	

General	7439-89-6 7439-92-1 7440-66-6	Total Me Total Me 7429-90-5	Sample Iden DA-002 SB41540-02 CAS No. A
General Chemistry Parameters Hardness Chemical Oxygen Demand Total Suspended Solids	Iron Lead Zinc	Total Metals by EPA 200/6000 Series Methods Preservation Field Preser Total Metals by EPA 200 Series Methods 7429-90-5 Aluminum 15.6	Sample Identification DA-002 SB41540-02 CAS No. Analyte(s)
136 171 740	25.4 0.385 0.792	s Methods Fleid Preserved hods 15.6	Result
		i i	Flag
mg/l CaCO3 mg/l mg/l	mg/l	N/A mg/l	Client Project # 01-215-977.00.00
0.291 20.0	0.0150 0.0075 0.0050	0.0250	oject # '7.00.00
0.242 6.50	0.0098	0.0167	MDL
~ ~ ~			Matrix Storm Water
SM 2340B HACH8000 SM2540D	3 : :	EPA 200/6000 methods	Method 1
28-Dec-11 29-Dec-11 28-Dec-11	: #' :	23-Dec-11 28-Dec-11	Collection Date/Time 22-Dec-11 00:00 Ref. Prepared Analy
28-Dec-11 30-Dec-11 29-Dec-11 29-Dec-11 28-Dec-11 29-Dec-11	30-Dec-11	23-Dec-11 23-Dec-11 28-Dec-11 30-Dec-11	tion Date/Time Received Dec-11 00:00 22-Dec-11 Prepared Analyzed Analyst Batch Cert.
GMA BD	= =		Rei 22-1
1127058 1127277 1127152	: : :	AMT 1126933	Received 22-Dec-11 byst Batch
×××	\times \times \times	××	Cert.

Total Metals by EPA 200 Series Methods - Quality Control

Copper	Aluminum	Zinc	Iron	Lead	LCS (1127058-BS1)	Copper	Aluminum	Iron	Lead	Zinc	Blank (1127058-BLK1)	Batch 1127058 - EPA 200 Series	Analyte(s)
1.37	1.39	1.32	1.40	1.37		< 0.0050	< 0.0250	0.0646	< 0.0075	< 0.0050			Result
								QB1					Flag
mg/l	mg/l	mg/l	mg/l	mg/l		mg/l	mg/l	mg/i	mg/l	mg/l			Units
0.0050	0.0250	0.0050	0.0150	0.0075		0.0050	0.0250	0.0150	0.0075	0.0050			*RDL
1.25	1.25	1.25	1.25	1.25	밀						Pn		Spike Level
					epared: 28-						pared: 28-		Source Result
110	111	106	112	109	Dec-11 A						Dec-11 A		%REC
85-115	85-115	85-115	85-115	85-115	Prepared: 28-Dec-11 Analyzed: 30-Dec-11						Prepared: 28-Dec-11 Analyzed: 30-Dec-11		%REC Limits
					ec-11						éc-11		RPD
													RPD Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1127058 - EPA 200 Series									
Blank (1127058-BLK1)				Prep	ared: 28-D	ec-11 Ana	Prepared: 28-Dec-11 Analyzed: 30-De	Dec-11	
Hardness	< 0.291	mg/l CaCO3	0.291						
LCS (1127058-BS1)				Prep	ared: 28-D	ec-11 Ana	Prepared: 28-Dec-11 Analyzed: 30-Dec-11	Ö-11	
Hardness	23.0	mg/l CaCO3	0.291	20.8		111	85-115		
Batch 1127152 - General Preparation									
Blank (1127152-BLK1)				Prep	Prepared: 28-Dec-11 Analyzed: 29-I	ec-11 Ans	ilyzed: 29-De	<u>)ec-11</u>	
Total Suspended Solids	۸ ۲	mg/l	σı						
LCS (1127152-BS1)				Prep	Prepared: 28-Dec-11		Analyzed: 29-De	<u>Dec-11</u>	
Total Suspended Solids	86	mg/l	10	89.0		97	90-110		
Batch 1127277 - General Preparation									
Blank (1127277-BLK1)				Preg	Prepared & Analyzed: 29-Dec-11	alyzed: 29-l	Dec-11		
Chemical Oxygen Demand	< 5.00	mg/l	5.00						
LCS (1127277-BS1)				Pres	Prepared & Analyzed: 29-Dec-11	alyzed: 29-l	Dec-11		
Chemical Oxygen Demand	49.3	mg/l	5.00	50.0		99	90-110		
Calibration Blank (1127277-CCB1)				Preg	Prepared & Analyzed: 29-Dec-11	alyzed: 29-l	Dec-11		
Chemical Oxygen Demand	0.125	mg/l							
Calibration Blank (1127277-CCB2)				Prej	Prepared & Analyzed: 29-Dec-11	вlуzed: 29-	Dec-11		
Chemical Oxygen Demand	1.14	mg/l							
Calibration Blank (1127277-CCB3)				Pre	Prepared & Analyzed: 29-Dec-11	alyzed: 29-	Dec-11		
Chemical Oxygen Demand	0.276	mg/i							
Calibration Check (1127277-CCV1)				Pre	Prepared & Analyzed: 29-Dec-11	aiyzed: 29-	Dec-11		
Chemical Oxygen Demand	49.1	//gm		50.0		98	90-110		
Callbration Check (1127277-CCV2)				Pre	Prepared & Analyzed: 29-Dec-11	alyzed: 29-	Dec-11		
Chemical Oxygen Demand	48.0	mg/l		50.0		96	90-110		
Calibration Check (1127277-CCV3)				Pre	Prepared & Analyzed: 29-Dec-11	alyzed: 29-	Dec-11		
Chemical Oxygen Demand	48.7	mg/l		50.0		97	90-110		
Reference (1127277-SRM1)				Pre	Prepared & Analyzed: 29-Dec-11	alyzed: 29-	Dec-11		
Chemical Oxygen Demand	74.5	mg/i	5.00	77.5		96	79-115		

Notes and Definitions

QB1 sample result, which is negligible according to method criteria. The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the

Ĵ Sample results reported on a dry weight basis

K Nct Reported

Relative Percent Difference

document laboratory performance. Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix. Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample

processing. The method blank should be carried through the complete sample preparation and analytical procedure. Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample is used to document contamination resulting from the analytical process The method blank

that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence

into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and RDLs are highly matrix-dependent.

process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical

Continuing Calibration Verification. The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific

Validated by:

This laboratory report is not valid without an authorized signature on the cover page

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